Commonwealth of Kentucky
Division for Air Quality

PERMIT STATEMENT OF BASIS

Title V draft permit, No. V-98-030
Corning Incorporated
680 East Office Street, Harrodsburg, Kentucky 40330
May 4, 2000
Completed by: Ashiq Zaman

SOURCE DESCRIPTION, CONTROL EQUIPMENTS & CONSTRUCTION DATE:

Emissions Unit 01: Existing Operations for Raw Materials Handling

Machine Point	Description	Commenced operation	Operating rate
01	Railcar raw material unloading equipped with building enclosure	1966	25 tons/hour
02	Weight station 1 equipped with baghouse	1969	5 tons/hour
03	Weight station 2 equipped with baghouse	1970	5 tons/hour
04	Lancaster Mixer EB4 equipped with baghouse	1969	0.4 ton/hour
05	Lancaster Mixer EB4½ equipped with baghouse	1969	4 tons/hour

Emissions Unit 02: New Operations for Raw Materials Handling

Machine Point	Description	Commenced operation	Operating rate
01	Raw material separator equipped with baghouse	1992	7.5 tons/hour
02	Day bins system 1 equipped with baghouse	1993	7.5 tons/hour
03	Day bins system 2 equipped with baghouse	1993	7.5 tons/hour
04	Lancaster mixer 1 equipped with baghouse	1992	5 tons/hour
05	Eirich mixer equipped with baghouse	1982	7.5 tons/hour

Machine Point	Description	Commenced operation	Operating rate
06	Primary cullet crusher equipped with baghouse	1983	25 tons/hour
07	Secondary cullet crusher equipped with baghouse	1983	25 tons/hour
08	Loading into ophthalmic tanks equipped with building enclosure	1986	0.53 ton/hour
09	Loading into ADP tanks equipped with building enclosure	1989	2.025 ton/hour

Emissions Unit 03: Vacuum Systems

Machine Point	Description	Commenced operation	Operating rate
01	Central vacuum system equipped with baghouse	1981	0.2 ton/hour
02	Cullet crushing vacuum system equipped with baghouse	1983	0.2 ton/hour
03	Melting vacuum system equipped with baghouse	1983	0.2 ton/hour

Emissions Unit 04: Glass Melting Tank (T133)

Experimental glass melting furnace; rated 0.5 mmBTU/hour; natural gas/propane fired
Construction commenced: January 1986
Control equipment: Baghouse
Processing rate: 0.025 ton/hour glass pull

Emissions Unit 05 (28): Glass Melting Tank (T138)

Glass melting furnace; rated 6 mmBTU/hour; natural gas/propane fired
Construction commenced: July 1993
Control equipment: Baghouse, spray cooler and excess air burner
Processing rate: 0.5 ton/hour glass pull

Emissions Unit 06 (29): Glass Melting Tank (T139)

Glass melting furnace; rated 6.5 mmBTU/hour; natural gas/propane fired
Construction commenced: July 1989
Control equipment: Baghouse, spray cooler and excess air burner
Processing rate: 0.5 ton/hour glass pull

Emissions Unit 07 (30): Glass Melting Tank (T1310)

Glass melting furnace; rated 5 mmBTU/hour; natural gas/propane fired
Construction commenced: May 1989
Control equipment: Baghouse, spray cooler and excess air burner
Processing rate: 0.5 ton/hour glass pull

Emissions Unit 08 (31): Glass Melting Tank (T1311)

Glass melting furnace; rated 5 mmBTU/hour; natural gas/propane fired
Construction commenced: June 1995 (modified)
Control equipment: Baghouse, spray cooler and excess air burner
Processing rate: 0.5 ton/hour glass pull

Emissions Unit 09 (42): Indirect Heat Exchanger

Natural gas horizontally-opposed fired
Maximum continuous rating: 10.5 MMBTU/hour
Secondary fuel: Propane or #2 fuel oil.
Construction Commenced: January 1987

REGULATION APPLICABILITY:

All the applicable regulations to the emission units are listed in the permit. The following regulations are not applicable based on the applicability of the regulations, applicability dates, and/or commencement dates:

Regulations not applicable to emissions unit 01:

Regulation 401 KAR 59:010, New process operations, applicable to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate, commenced on or after July 2, 1975, due to applicability dates.

Regulations not applicable to emissions units 02 and 03:

Regulation 401 KAR 61:020, Existing process operations, applicable to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate, commenced before July 2, 1975, due to applicability dates.

Regulations not applicable to emissions unit 04:

Regulation 401 KAR 59:585, Standards of performance for glass manufacturing plants incorporating by reference 40 CFR 60, Subpart CC, Standards of performance for glass manufacturing plants applicable to each glass melting furnace that commence construction or modification after June 15, 1979, since the glass production rate is less than 4,550 kilograms per day.

Regulations not applicable to emissions unit 09:

Regulation 401 KAR 60:042, Standards of performance for industrial-commercial-institutional steam generating units, incorporating by reference 40 CFR 60 Subpart Db, applicable to an emission unit of greater than 100 mmBTU/hour and constructed after June 19, 1984, due to the size of the unit.

Regulation 401 KAR 60:043, Standards of performance for small industrial-commercial-institutional steam generating units, incorporating by reference 40 CFR 60 Subpart Dc, applicable to an emission unit with a design maximum heat input capacity of 100 mmBTU/hour or less and greater than or equal to 10 mmBTU/hour and constructed after June 9, 1989, due to the applicability date of the regulation.

COMMENTS:

- The permittee has not proposed any alternate operating scenario for any of the emissions unit.

- This permit does not impose any emission cap on any of the emissions units.

- For emissions points 1, 2, 3 and 4, the permittee may assure continuing compliance with the particulate mass and opacity standard by proper operation of the baghouses. Proper operation of the baghouses can be ensured by conducting weekly visual observation as described in the permit.

- The permittee will be required to conduct a performance test in the third or forth year from the issuance of the permit to demonstrate compliance with arsenic reduction requirements as mentioned in the permit while operating all the glass melting furnaces (T138, T139, T1310, and T1311) controlled by a single control device (baghouse).

- The permittee will be required to conduct a performance test in the first year from the issuance of the permit to demonstrate compliance with particulate standard while operating all the glass melting furnaces (T138, T139, T1310, and T1311) controlled by a single control device (baghouse).

- The permittee may assure continuing compliance with the particulate standard for emissions units 5, 6, 7, and 8 by operating the process and control equipments such that opacity of emissions measured by the COM will not exceed the opacity limit developed during the stack test.

- While burning natural gas or propane at emissions unit 09, the unit will be considered in compliance with particulate, sulfur dioxide and opacity standards.

- This permit contains provisions which require that specific test methods, monitoring or record keeping be used as a demonstration of compliance with permit limits. On February 24, 1997, the U.S. EPA promulgated revisions to the following federal regulations: 40 CFR Part 51, Sec. 51.212; 40 CFR Part 52, Sec. 52.12; 40 CFR Part 52, Sec. 52.30; 40 CFR Part 60, Sec. 60.11 and 40 CFR Part 61, Sec. 61.12, that allow the use of credible evidence to establish compliance with applicable requirements. At the issuance of this permit, Kentucky has not incorporated these provisions in its air quality regulations.